

BUSHFIRE ASSESSMENT REPORT

Subdivision of Lot 44 DP1117263 349 McFarlanes Road, Berry Park NSW 2321.

Lezette Garry Hunter Valley Bushfire Consulting Services 24 February 2022

Table 1 – Document Version and Disclaimer

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| No: | Reference: | Author: | Reviewer: |
|-----------|--|---------|-----------|
| Version 1 | 22/02/24_BAR_ 349 McFarlanes Rd_V1 | lezette | KW |

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This bush fire assessment report shall remain valid for 12 months from the date of issue.

Charitable Donation:

Please note that a donation of \$10.00 will be made by Perception Planning to the NSW Rural Fire Service. The donation is made at the end of the financial year and is intended to assist the NSW RFS with community activities.

EXECUTIVE SUMMARY

A Bushfire Assessment Report (BAR) has been prepared by Hunter Valley Bushfire Consulting Services at the request of Perception Planning to assess compliance with the document, Planning for Bushfire Protection (PBP 2019) for a twenty-nine (29) lot subdivision at Lot 44 DP1117263, 349 McFarlanes Road, Berry Park NSW 2321.

The report forms part of the supporting documentation for a Development Application (DA) to be submitted to Maitland City Council (MCC). The proposed development is classified as Integrated Development under the provisions of Planning for Bushfire Protection (PBP) (NSW Rural Fire Service (RFS), 2019), and is therefore required under the legislation to be referred to the commissioner of the RFS, for the issue of a Bushfire Safety Authority. The report demonstrates compliance with PBP (RFS, 2019) and AS3959-2018 Construction of Buildings in Bush Fire Prone Areas.

This assessment aims to consider and assess the bushfire hazard and associated potential threats relevant to the proposal. Recommendations are provided regarding fuel management, access, provision of emergency services, building protection and construction standards, to facilitate an acceptable level of bushfire protection.

In summary, the following is recommended to enable the proposal to meet the relevant legislative requirements:

- APZs are required to be implemented for the subdivision in accordance with Table
 4-1 of this report and Figure 8 in the appendix
- Assessment in accordance with AS3959 2018 and the PBP 2019 (section 4 of this
 report) has shown that future dwellings within the lots will be able to comply with the
 required minimum BAL29. In any case, future dwellings within the site will be
 assessed under Section 4.14 of EP&A Act for each individual dwelling upon
 application.
- Reticulated water is being extended into the site. The development will be linked to the water pressure mains. The proposed internal fire hydrant spacing, sizing and pressures are to comply with AS 2419.1-2005 Fire Hydrant Installations
- Access to all lots is to comply with the acceptable criteria as listed in Table 5.3b of the document Planning for Bushfire Protection 2019 and the Table in Section 5.3 of this report.
- The installation of Electricity and Gas (if applicable) is subject to compliance with the Acceptable Criteria as listed in Table 5.3c of the document, Planning for Bushfire Protection 2019 and Table in Sections 5.5 and 5.6 of this report.

INTRODUCTION

The purpose of this report is to assess the compliance of a twenty-nine (29) lot subdivision at Lot 44 DP1117263 349 McFarlanes Rd, Berry Park NSW 2321 with the provisions of PBP 2019.

1. LOT INFORMATION

Address: (Lot 44 DP1117263) 349 McFarlanes Rd, Berry Park NSW 2321

Proposal: The proposal is for a twenty-nine (29) - lot subdivision (refer to Figure 1, Plans in

Appendix).

Area: Total area of Lot 44 is ha

Council: Maitland

Zoning: R1 general residential; RU2 Rural Landscape; C2 Environmental Conservation **Bushfire Prone Land:** yes - Category 3 vegetation (refer to Map Figure 3 in Appendix).

RFS Region: Lower Hunter

Is a Bushfire Safety Authority (BFSA) required? Yes

Significant Environmental Features: Flooding and C2 Environmental Conservation Zone **Threatened Species:** No items shown on mapping checked on SEED Portal 24/2/2022. **Aboriginal Objects:** No objects mapped—Basic Search completed on AHIMS website 10/12/2021.

Registered Fire Trails: there are no NSWRFS registered fire trails in the area – website checked 24/2/2022

2. SPECIFIC OBJECTIVES

2.1 Compliance with the Specific Objectives in Clause 5.2 of the PBP 2019.

| Specific Objective | Compliance | Comments |
|--|----------------|--|
| Minimise perimeters of the subdivision exposed to the bushfire hazard (hourglass shapes which maximise perimeters and create bottlenecks should be avoided). | Able to comply | Subject plan shows compliance. An additional 25m APZ has been added to achieve compliance for proposed Lots 14 &15. |
| Minimise vegetated corridors that permit the passage of bushfire towards buildings. | Able to comply | No vegetated corridors |
| Provide for the siting of future dwellings away from ridge-tops and steep slopes, within saddles and narrow ridge crests. | Able to comply | No ridge tops or steep slopes. |
| Ensure that APZ's between a bushfire hazard and future dwellings are effectively designed to address the relevant bushfire attack mechanisms. | Able to comply | APZs comply with Table A1.12.2 in PBP 2019. An additional 25m APZ has been added to Lot 29 to achieve compliance for Lots 14 and 15. |
| Ensure the ongoing maintenance of APZ's. | Able to comply | An 88B instrument should be provided. |

| Provide access to hazard vegetation to | Able to comply | Internal access within the |
|---|----------------|-------------------------------|
| facilitate bushfire mitigation works and fire | | individual lots can be |
| suppression | | provided |
| Provide adequate access from all properties | Able to comply | Compliant access to/from |
| to the wider road network for residents and | | the individual lots can be |
| emergency services | | provided |
| Ensure the provision of an adequate supply | Able to comply | a reticulated water supply is |
| of water and other services to facilitate | | provided. |
| effective firefighting. | | |

3. METHODOLOGY

The Australian Standard for assessing the BAL and providing the detailed requirements for construction has been reviewed and amended with the latest version being adopted for use in bushfire prone areas of NSW in March 2020. This version is titled AS 3959-2018 'Construction of Buildings in Bushfire Prone Areas' (standards Australia 2018, was used in this assessment.

In addition, the NSW method of determining the bushfire attack level, found in Appendix 1 of the document 'Planning for Bushfire Protection 2019' (NSW Rural Fire Service 2019) has also been reviewed and amended to come into line with the process within AS 3959. Therefore, in NSW the methodology with AS 3959 is to be used to determine the bushfire attack level. AS3959 (2018) Appendix A – Method 1 has been used in this BAL assessment.

3.1 Vegetation Assessment

Vegetation surveys and vegetation mapping carried out on the site has been undertaken as follows:

- Aerial Photograph Interpretation to map vegetation cover and extent.
- Confirmation of the vegetation present via a site inspection conducted on 15/2/2022.

3.2 Slope Assessment

Slope assessment has been undertaken as follows:

- Aerial Photograph Interpretation in conjunction with analysis of electronic contour maps with a contour interval of 10m.
- Confirmation of the slope present via a site inspection conducted on 15/2/2022.

4. SITE ASSESSMENT

4.1 Asset Protection Zone (APZ) Assessment of Table A1.12.2, PBP 2019 – residential subdivision. FFDI 100 (Maitland LGA). (Refer to Maps Figure 7&8 in the Appendix).

| Direction from site | Vegetation type within 140m of subdivision boundaries. | Effective slope of vegetated land(degrees) | Required minimum distance for APZ |
|---------------------------|---|--|-----------------------------------|
| north | grassland | downslope | 12m |
| west | grassland | downslope | 12m |
| east | grassland | upslope | 10m |
| south | Managed Land | upslope | _ |

4.2 Building Attack Level's (BAL's) Table A1.12.5 PBP 2019. (Refer to Figure 7 Map in the Appendix)

| Vegetation type | Slope of land under vegetation type | Separation distance from vegetation type | Bushfire attack level |
|--------------------|---|---|-----------------------|
| Grassland | Flat/upslope | 10 - <15m | BAL29 |
| | | 15 - <22m | BAL19 |
| | | 22 - < 50m | BAL12.5 |
| | | | |
| Grassland | Downslope 0-5 degrees | 12 - <17m | BAL29 |
| | | 17 - <25m | BAL19 |
| | | 25 - <50m | BAL12.5 |

Photo 1. Looking north of the proposed subdivision along McFarlanes Rd (Source: HVBCS-author,15/2/2022)



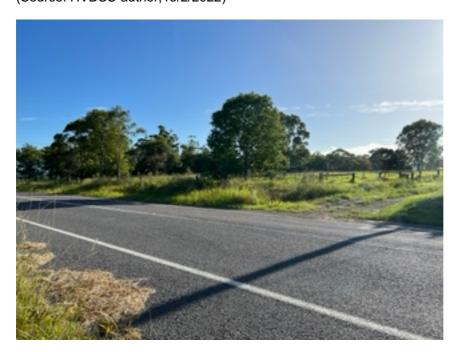
Photo 2. Looking at the southern connection of the existing to proposed Subdivision (Source: HVBCS- author, 15/2/2022)



Photo 3. Looking west from proposed Subdivision (Source: HVBCS-author, 15/2/2022)



Photo 4. Looking east of the proposed subdivision. (Source: HVBCS-author,15/2/2022)



5. BUSHFIRE PROTECTION MEASURES

$5.1\,\mathrm{APZ's}$ and Compliance with Table $5.3\mathrm{a}$ of the PBP 2019. (Refer to Maps Figures 7 & 8 in Appendix)

| Performance Criteria | Acceptable Solutions | Compliance | Comments |
|--|---|----------------|--|
| Potential building footprints must not be exposed to radiant heat levels exceeding 29kW/m2 on each proposed lot. | APZs are provided in accordance with Tables A1.12.2 and A1.12.3 based on the FFDI | Able to comply | The proposed subdivision can comply with the APZs as listed in Table A1.12.2. PBP 2019. A 25m APZ has been applied to Lot 29 in order to achieve compliance for Lots 14,15 and 16. |
| | | | Refer to Table 4.1 above for these. |
| APZ's are managed and maintained to prevent the spread of fire towards the building. | APZs are managed in accordance with the requirements of Appendix 4 | Able to comply | This requirement is to be the subject of an 88B instrument. |
| APZ maintenance is practical, soil stability is not compromised and the potential for crown fires is minimised. | APZs are wholly within the boundaries of the development site | Able to comply | Maintenance of the APZs is to be subject to an 88B instrument. No trees exist for crown fires. Slope is not creating soil instability. |
| The APZ's is provided in perpetuity | APZs are located on lands with a slope less than 18degrees | Able to comply | The presence of an APZ provided in perpetuity is to be the subject to an 88B instrument. |

5. 2 Landscaping and Compliance with Table 5.3a of the PBP 2019.

| Performance Criteria | Acceptable Solutions | Compliance | Comments |
|---|--|----------------|--|
| Landscaping is designed and managed to minimise flame contact and radiant heat to buildings and the potential for wind driven embers to cause ignitions | Landscaping is in accordance with Appendix 4; and Fencing is constructed in accordance with section 7.6 | Able to comply | Fencing and landscaping of individual lots will be considered at dwelling DA stage however the features of the subdivision do not pose any problem with compliance. Subdivision/ street landscaping is capable of complying with these requirements – recommendation listed below. |

5.3. Access and compliance with table $5.3 b \ of the PBP \ 2019$

| Performance Criteria | Acceptable Solutions | Compliance | Comments |
|--|---|----------------|---|
| General access requirements - Fire Fighting Vehicles are | property access roads are two- wheel drive, all-weather roads. | Able to comply | Access details for the development show compliance. |
| provided with safe all- weather access to structures | perimeter roads are provided for residential subdivisions of three or more allotments. | Able to comply | Meadowhawke St is a perimeter road – located between hazard and proposed lots 25 – 28 to the west of the subdivision. |
| | subdivisions of three or more allotments have more than one access in and out of the development. | Able to comply | The two internal roads Red Baron Rd and Meadowhawke St are extensions of an existing subdivision. These roads provide access/egress to/from the proposed lots in the 29- lot subdivision. |
| | traffic management devices are constructed to not prohibit access by emergency services vehicles; | Able to comply | There are no traffic management devices proposed. Proposed grades comply. Refer to Civil drawing in Figure 2 of Appendix |

| maximum grades for sealed roads do not exceed 15 degrees and an average grade of not more than 10 degrees or other gradient specified by road design standards, whichever is the lesser gradient; all roads are through roads. | | |
|--|-----------------|--|
| dead end roads are not recommended, but if unavoidable, are not more than 200 metres in length, incorporate a minimum 12 metres outer radius turning circle, and are clearly sign posted as a dead end. | Does not comply | The extension of both Meadowhawke St and Red Baron Rd are no through roads from the north of existing Relict St. These form the main part of this proposed subdivision. Red Baron Rd from the north of Relict Street is collectively greater than 200m in length. On its own as a part of this subdivision application only it complies with the requirement <200m. The cul -de - sac does not appear to have a 12m outer radius. Turning path details are provided in Figure 2 of Appendix. The significant vegetation in this assessment is grassland and at the end of both streets is 0-5 degrees downslope. An additional bushfire measure has been added to the subdivision design. A 25m APZ has been applied to the north of both streets. Water hydrants are available in both streets as well as in McFarlanes Rd. |
| where kerb and guttering are provided on perimeter roads, roll top kerbing should be used to the hazard side of the road. | Able to comply | Noted. Engineering details for the subdivision show rolled kerb. Refer to Figure 2 of Appendix. |
| where access/egress can only be achieved through forest, woodland and heath vegetation, secondary access shall be provided to an alternate point on the | Able to comply | No forest or woodland vegetation is present. Only grassland. |

| | andation of the | | |
|------------------------|---------------------------|------------|--|
| | existing public | | |
| | road system. | | |
| | and one way only | Not | There are no one way roads proposed for this |
| | public access | applicable | subdivision. |
| | roads are no less | арріісавіє | Subdivision. |
| | than 3.5 metres | | |
| | wide and have | | |
| | designated parking | | |
| | bays with hydrants | | |
| | located outside of | | |
| | these areas to | | |
| | ensure | | |
| | accessibility to | | |
| | reticulated water | | |
| | for fire suppression | | |
| <u>General</u> | the capacity of | Able to | Civil construction details for the proposal in |
| <u>access</u> | perimeter and non- | comply | Figure 2 of the Appendix show compliance. |
| requirements | perimeter road | | |
| - the capacity | surfaces and any | | |
| of access | bridges/causeways | | |
| roads is | is sufficient to | | |
| adequate for | carry fully loaded | | |
| fire fighting vehicles | firefighting vehicles | | |
| venicies | (up to 23 tonnes). | | |
| | bridges/causeways | | |
| | are to clearly | | |
| | indicate load | | |
| | rating. | | |
| General | hydrants are | Able to | Reticulated water supply to be provided. |
| access | located outside of | comply | Recommendation to be placed at end of |
| <u>requirements</u> | parking reserves | | report. |
| - There is | and road | | |
| appropriate | carriageways to | | |
| access to | ensure | | |
| water supply | accessibility to | | |
| | reticulated water | | |
| | for fire | | |
| | suppression. | | |
| | hydrants are | Able to | Refer to recommendation listed below. |
| | provided in | comply | |
| | accordance with | | |
| | the relevant | | |
| | clauses of AS | | |
| | 2419.1:2005 - Fire | | |
| | hydrant | | |
| | installations | | |
| | System design, | | |
| | installation, and | | |
| | commissioning. | | |
| | there is suitable | Able to | Subject to the recommendation discussed |
| | access for a | comply | Subject to the recommendation discussed above, the proposed subdivision should |
| | Category 1 fire | Соттріу | comply with this provision. |
| | appliance to within | | Compry with this provision. |
| | CANDICALICATION VVIIIIIII | ı | |

| | 4m of the static water supply where no reticulated supply is available. | | |
|---|--|-------------------|---|
| Perimeter Access - roads are designed to allow safe | are two way sealed roads; minimum 8m carriageway width kerb to kerb. | Able to comply | Refer to Cross section provided in Figure 2 of appendix. The subdivision complies. |
| access and egress for fire fighting vehicles while residents are | parking is provided outside of the carriageway width. | Able to comply | On site carparking is provided to each lot. |
| evacuating as well as providing a safe operational environment for emergency personnel during | hydrants are located clear of parking areas; are through roads, and these are linked to the internal road system at an interval of no greater than 500m. | Able to Comply | The location of hydrants provisions is listed as a recommendation below. |
| firefighting and emergency | curves of roads have a minimum inner radius of 6m. | Able to comply | Turning path details are provided in Figure 2 of the appendix. |
| management on the interface | the maximum grade road is 15 degrees and average grade of not more than 10 degrees. | Able to comply | Grades of roads are provided in the cross - section details provided in Figure 2 of the appendix. |
| | the road crossfall does not exceed 3 degrees; and | Able to comply | These details are provided in the cross section listed in Figure 2 of the appendix |
| | a minimum vertical clearance of 4m to any overhanging obstructions, including tree branches, is provided. | Able to comply | Street planting details are provided in Figure 2 of the appendix. |
| Non- Perimeter - Access roads are designed | minimum 5.5m carriageway width kerb to kerb. | Able to comply | Red Baron Rd is 8m in width see cross section detail in Figure 2 appendix. |
| to allow safe access and egress for firefighting | parking is provided outside of the carriageway width; hydrants are | Able to comply | Off street- car parking is provided with each lot. The location of hydrants is addressed by the recommendation listed below. |

| vehicles | located clear of | | |
|---------------|--------------------------------|---------|---|
| whilst | parking areas. | | |
| residents are | | | |
| evacuating | roads are through | Doesn't | Red Baron rd is not a through road to the |
| | roads, and these | comply | north of the proposed subdivision. The |
| | are linked to the | | proposed lots 1- 14 along the east of this road |
| | internal road | | are also bounded by McFarlanes Rd which |
| | system at an | | contains water hydrants. These lots are also |
| | interval of no | | connected to an existing road system to the |
| | greater than 500m. | | south (existing subdivision). |
| | curves of roads | Able to | Details provided in Figure 2 in the appendix. |
| | have a minimum | comply | Betalle provided in Figure 2 in the appendix. |
| | inner radius of 6m; | oop., | |
| | the road crossfall | | |
| | does not exceed 3 | | |
| | degrees; and | | |
| | | | |
| | a minimum vertical | | Street planting shown in the cross section in |
| | clearance of 4m to | | Figure 2 of the appendix can comply. |
| | any overhanging | | |
| | obstructions, | | |
| | including tree branches, is | | |
| | provided. | | |
| Property | There are no | Able to | The development is in an urban area. The |
| access - | specific access | comply | speed limit is 50. No proposed lots are longer |
| firefighting | requirements in an | | than 70m. |
| vehicles can | urban area where | | |
| access the | an unobstructed | | |
| dwelling and | path (no greater | | |
| exit the | than 70m) is | | |
| property | provided between | | |
| safely | the most distant | | |
| | external part of the | | |
| | proposed dwelling | | |
| | and the nearest | | |
| | part of the public | | |
| | access road (where the road | | |
| | speed limit is not | | |
| | greater than | | |
| | 70kph) that | | |
| | supports the | | |
| | operational use of | | |
| | emergency | | |
| | firefighting | | |
| | vehicles. | | |
| | | | |
| | In circumstances | Able to | See above. |
| | where this cannot | comply | |
| | occur, the | | |
| | following | | |
| | requirements | | |
| | apply: | | |
| | | | |
| | l l | | |

| minimum 4m carriageway widt in forest, woodlar and heath situations, rural property access roads have passing bays every 200m tha are 20m long by 2m wide, making | t | |
|---|------------------|---|
| minimum trafficable width 6m at the passin bay. | | |
| a minimum vertice clearance of 4m any overhanging obstructions, including tree branches. | to comply | See street cross section detail provided in Figure 2 of the Appendix. |
| provide a suitabl turning area in accordance with Appendix 3. | comply | See street cross section detail provided in Figure 2 of the Appendix |
| curves have a minimum inner radius of 6m and are minimal in number to allow frapid access and egress. | d or | See street cross section detail provided in Figure 2 of the Appendix |
| the minimum distance betwee inner and outer curves is 6m. | , , | See street cross section detail provided in Figure 2 of the Appendix |
| the crossfall is no more than 10 degrees. | Able to comply | See street cross section detail provided in Figure 2 of the Appendix |
| maximum grade for sealed roads do not exceed 1 degrees and no more than 10 degrees for unsealed roads and | comply 5 t | See street cross section detail provided in Figure 2 of the Appendix |
| a development comprising more than three | | Refer to subdivision plans in Figure 1 of the appendix |

| | dwellings has | | |
|---|----------------------|--|--|
| | access by | | |
| | dedication of a | | |
| | road and not by | | |
| | right of way. | | |
| | | | |
| | Note: Some short | | |
| | constrictions in the | | |
| | access may be | | |
| | accepted where | | |
| | they are not less | | |
| | than 3.5m wide, | | |
| | extend for no more | | |
| | than 30m and | | |
| | where the | | |
| | obstruction cannot | | |
| | be reasonably | | |
| | avoided or | | |
| | removed. The | | |
| | gradients | | |
| | applicable to | | |
| | public roads also | | |
| | apply to | | |
| | community style | | |
| | development | | |
| | property access | | |
| | roads in addition to | | |
| | the above. | | |
| | | | |
| L | | | |

5.4. Water supply and compliance with Table 5.3c of PBP 2019

| Performance Criteria | Acceptable Solutions | Compliance | Comments |
|--|---|----------------|--|
| Adequate water supplies are provided for firefighting purposes | reticulated water is to be provided to the development where available. a static water and hydrant supply is provided for non-reticulated developments or where reticulated water supply cannot be guaranteed; and static water supplies shall comply | Able to comply | It appears that the development will have a reticulated water supply available. |
| Water supplies are located at regular intervals; and The water supply is accessible and reliable for firefighting operations | with Table 5.3d fire hydrant, spacing, design and sizing complies with the relevant clauses of Australian Standard AS 2419.1:2005. hydrants are not located within any road carriageway; and | Able to comply | The proposal is within an urban area. Compliance should be able to be achieved. |

| | reticulated water supply to urban subdivisions uses a ring main system for areas with perimeter roads. | | |
|--|--|----------------|---|
| Flows and pressure are appropriate | fire hydrant flows and pressures comply with the relevant clauses of AS 2419.1:2005 | Able to comply | Noted – compliance should be able to be achieved. |
| The integrity of the water supply is maintained. | all above-ground water service pipes are metal, including and up to any taps; and | Able to comply | Noted – compliance should be able to be achieved. |
| | above-ground water storage tanks shall be of concrete or metal. | | |

5.5. Electricity and Compliance with Table 5.3c of the PBP 2019

| Performance Criteria | Acceptable solutions | compliance | Comments |
|--|--|----------------|---|
| Location of electricity services limits the possibility of ignition of surrounding bushland or the fabric of the buildings | where practicable, electrical transmission lines are underground. where overhead, electrical transmission lines are proposed as follows: lines are installed with short pole spacing of 30m, unless crossing gullies, gorges, or riparian areas; and no part of a tree is closer to a power line than the distance set out in ISSC3 Guideline for Managing Vegetation Near Power Lines | Able to comply | compliance with this requirement should be able to be achieved – there is no impediment for compliance. |

5.6. Gas and compliance with Table 5.3c of the PBP 2019

| Performance criteria | Acceptable solutions | compliance | Comments |
|--|--|----------------|---|
| Location and design of gas services will not lead to ignition of surrounding bushland or the fabric of the buildings | reticulated or bottled gas is installed and maintained in accordance with AS/NZS 1596:2014 - The storage and handling of LP Gas, the requirements of relevant authorities, and metal piping is used. | Able to comply | There is no mention of a proposal for the installation of gas however there is no impediment to compliance with this requirement. |

all fixed gas cylinders are kept
clear of all flammable materials to
a distance of 10m and shielded
on the hazard side.

connections to and from gas
cylinders are metal; polymersheathed flexible gas supply lines
are not used; and

above-ground gas service pipes
are metal, including and up to any
outlets.

CONCLUSION AND RECOMMENDATIONS.

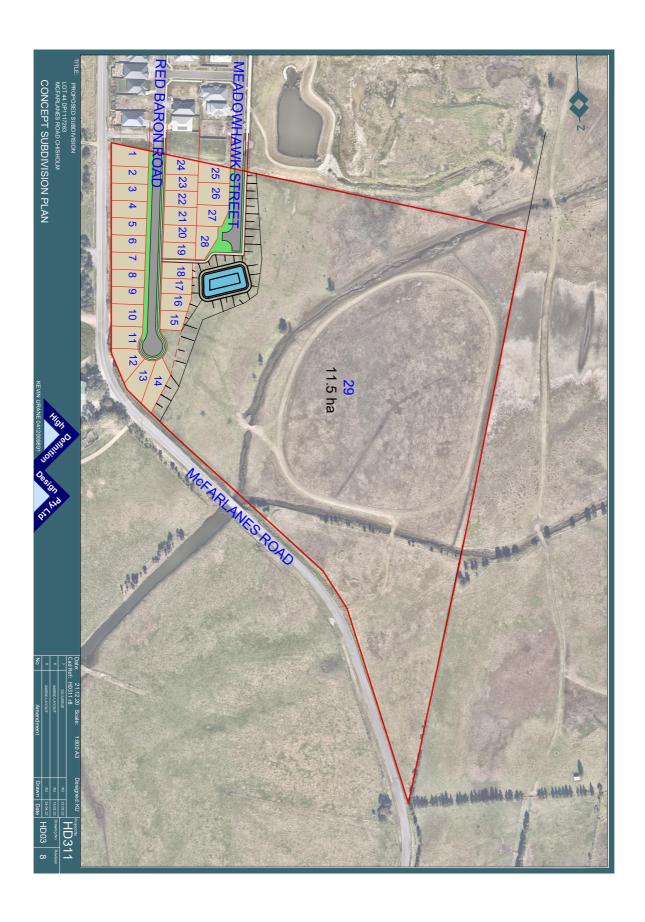
The twenty-nine (29) lot subdivision can comply with the provisions of Section 5 – Residential and Rural Residential Subdivisions, of the document, Planning for Bushfire Protection (RFS,2019). Subject to the required APZ distances (listed in Table 4.1 above and shown on Maps Figure 7&8 in the Appendix) any future dwellings are capable of being located on proposed Lots where a maximum BAL29 construction level will apply. It is recommended that: -

- APZs are required to be implemented for the subdivision in accordance with Table
 4-1 and Maps Figure 7&8 in the appendix.
- Assessment in accordance with AS3959 and the PBP (sections 4 of this report) has shown that future dwellings within the lots will be able to comply with the required BALs. In any case, future dwellings within the site will be assessed under Section 4.14 of EP&A Act for each individual dwelling upon application.
- Reticulated water is extended into the site. The development will be linked to the water pressure mains and the proposed internal fire hydrant spacing, sizing and pressures are to comply with AS 2419.1-2005 Fire Hydrant Installations
- Access to all lots is to comply with the acceptable criteria as listed in Table 5.3a below.

APPENDIX







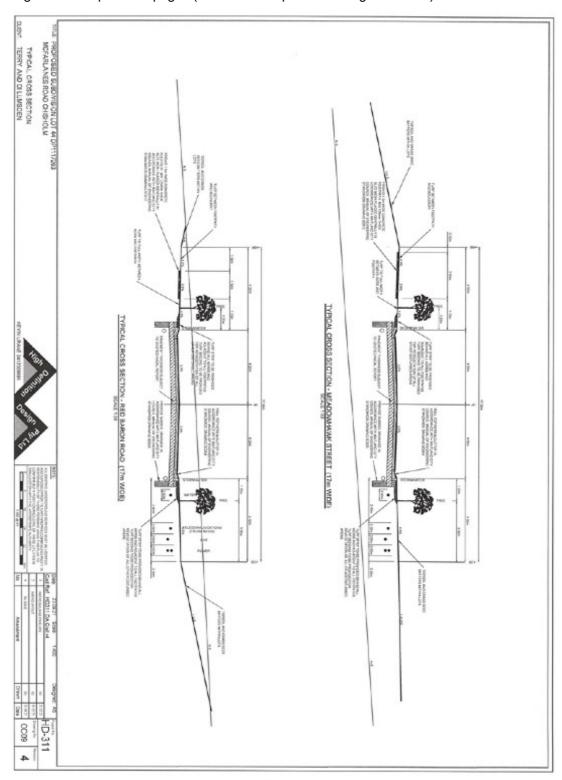
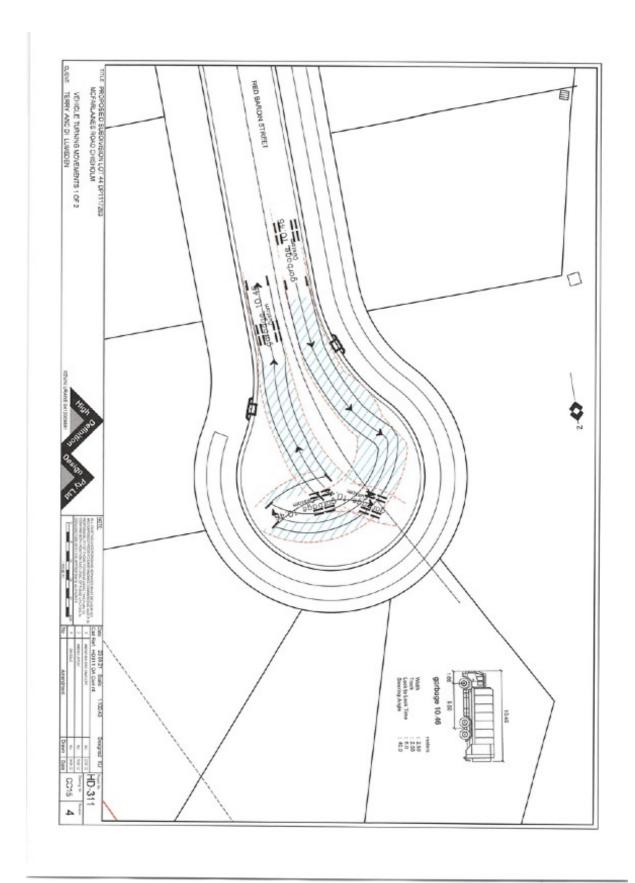
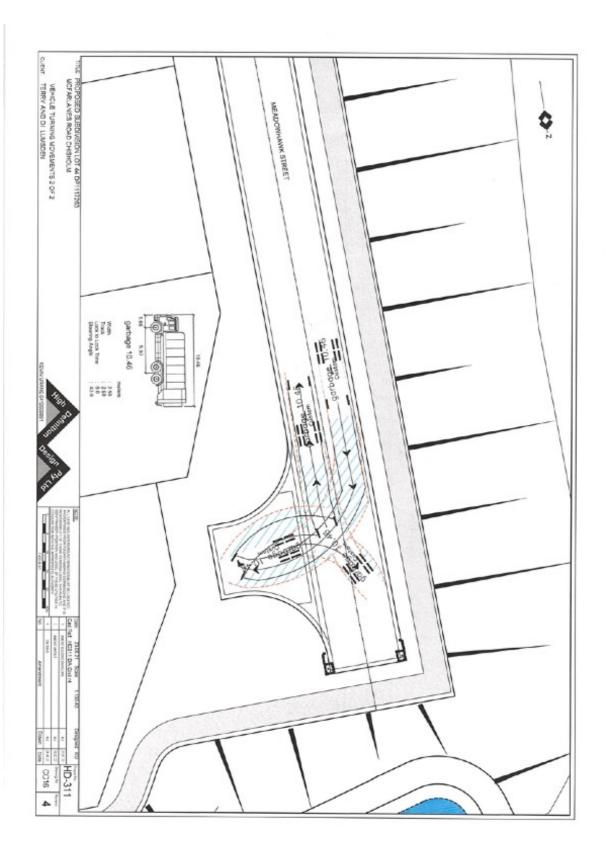


Figure 2. Civil plans - 3 pages (Source: Perception Planning 24/2/2022)





Maps.

